

**ABSTRACT**

An assistance vehicle (A) is connected to a dump truck (D) on or at bases of ascending paths (T1, T2), and power is supplied as auxiliary power from the assistant vehicle A to a driving motor in the dump truck (D). Because of this feature, a driving  
5 unit of the dump truck (D) (a generator for supplying power to the driving motor in the dump truck (D) or a generating engine for driving the generator) is required only to have the performance sufficient for running on horizontal paths (H1 to H3), which enables size reduction of the driving unit and as a result cost reduction of the dump truck (D). Further  
10 the assistant vehicle (A) is connected to the dump truck (D) and moves together with the dump truck (D), so that a freedom degree of the dump truck (D) for a traveling path can substantially be improved.